

1 SUPERIOR COURT OF THE STATE OF CALIFORNIA
2 FOR THE COUNTY OF LOS ANGELES

16 Deposition of SAMUEL P. HAMMAR, M.D., at
17 6225 West Century Boulevard, The Radisson
18 Hotel, Los Angeles, California, commencing
19 at 10:31 A.M., Tuesday, January 22, 2002,
20 before Irma C. Hogan, CSR No. 4877.

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1 APPEARANCES OF COUNSEL:

3 FOR THE PLAINTIFF:

12 FOR THE DEFENDANT PHILIP MORRIS INC.:

14 ARNOLD & PORTER
15 BY: ANGEL L. TANG. ESQ.
16 777 South Figueroa Street
17 44th Floor
18 Los Angeles, California 90017-5844
19 (213) 243-4094

1 SAMUEL P. HAMMAR, M.D.,
2 having been duly administered an oath in accordance
3 with CCP Section 2094 was examined and testified as

3

11 A. Yes.
12 Q. Good morning, Dr. Hammar. Again, thank you
13 for flying in for your deposition today. My name is
14 Angel Tang and I represent Philip Morris Incorporated
15 in this lawsuit brought by Betty Bullock. 10:32:05AM
16 I understand that you have been retained to
17 testify as an expert in this case. Is that correct?
18 A. Yes.
19 Q. May I have your Social Security number and
20 date of birth, please? 10:32:16AM
21 A. [DELETED]
22 Q. What is your professional address?
23 A. Diagnostic Specialties Laboratory, 700 Lebo,
24 L-e-b-o, Boulevard, Bremerton, B-r-e-m-e-r-t-o-n,
25 Washington 98310. 10:32:36AM
4
1 Q. You have had your deposition taken many times 10:32:47AM
2 in the past; is that correct?
3 A. Yes.
4 Q. Approximately how many times have you
5 testified in deposition as an expert witness? 10:32:52AM
6 A. Over 500 times.
7 Q. Of these depositions, how many were given in
8 cases involving tobacco companies?
9 A. Approximately ten.
10 Q. In those ten cases did you testify on behalf 10:33:12AM
11 of the plaintiff or on behalf of the defendant?
12 A. Plaintiff.
13 Q. Against a tobacco company?
14 A. Yes.
15 Q. I take it then that you are familiar with the 10:33:25AM
16 deposition process and your rights and obligations as
17 a deponent?
18 A. Yes.
19 Q. I'd like to remind you of a few basic
20 instructions before we begin. Is that all right? 10:33:35AM
21 A. Sure.
22 Q. If at any time during the deposition you
23 don't understand my question, I ask that you ask me to
24 clarify or rephrase. Okay?
25 A. Yes. 10:33:44AM
5
1 Q. If I don't hear otherwise, I'll assume you 10:33:45AM
2 fully understood and heard the question.
3 A. All right.
4 Q. We have a court reporter here today. That
5 means two things for us. First, we must take turns 10:33:52AM
6 speaking. And second, we need to provide audible and
7 verbal responses, in other words, no nods of the head
8 or "Uh-uh's" or "Uh-huh's." Okay?
9 A. All right.
10 Q. During the deposition Ms. Weiss may interpose 10:34:05AM
11 objections. Ms. Weiss is doing so to preserve the
12 record. I ask that you continue to answer the
13 question if you understand it. Okay?
14 A. Yes.
15 Q. If at any point during the deposition you 10:34:16AM
16 need to take a break, feel free to let me know and we
17 will take a short recess.
18 A. All right.
19 Q. Is there any reason why you cannot provide
20 truthful, accurate, and complete testimony today? 10:34:26AM
21 A. No.

22 Q. Did you happen to bring a copy of your most
23 current CV with you today?
24 A. Yes.
25 Q. May I have a copy, please? 10:34:37AM
6
1 A. Yes. 10:34:42AM
2 Q. Thank you.
3 I would like to have Dr. Hammar's CV marked
4 as Exhibit 1, please.
5 (Defendant's Exhibit 1 was marked for
6 identification and is annexed hereto.)
7 BY MS. TANG:
8 Q. This CV is current and up to date?
9 A. It is relatively current. It was actually
10 written or updated on January 2001. There have been a 10:35:24AM
11 few insertions since then. I don't think there has
12 been any significant information that is not included
13 in that CV.
14 Q. Thank you. You are board-certified in
15 anatomic and clinical pathology; correct? 10:35:46AM
16 A. Yes.
17 Q. And can you explain the difference between an
18 anatomical pathologist and a diagnostic pathologist?
19 A. I think of an anatomic pathologist and a
20 diagnostic pathologist as somewhat the same because an 10:36:00AM
21 anatomic pathologist makes diagnoses.
22 There is a difference between anatomic and
23 clinical pathology. Anatomic pathology deals with
24 diagnosing diseases by looking at cells, tissues, and
25 organs. Clinical pathology deals with evaluation of 10:36:16AM
7
1 certain specimens that come from humans like blood, 10:36:21AM
2 urine, et cetera.
3 Q. What is your affiliation with the Diagnostic
4 Specialties Laboratory?
5 A. I am the president of that organization, but 10:36:37AM
6 I am a partner in that organization with three other
7 pathologists who are also equal partners. I am the
8 individual who runs the Diagnostic Specialties
9 Laboratory. I'm sometimes referred to as the
10 director. 10:36:59AM
11 Q. Who are your three other partners?
12 A. One's name is Dr. Keith Hallman,
13 H-a-l-l-m-a-n. One is David M. Bray, B-r-a-y, III.
14 And the other is Richard Cox, C-o-x.
15 Q. What kind of work is performed at the 10:37:19AM
16 Diagnostic Specialties Laboratory?
17 A. We do several things. About half of the work
18 we do is evaluation of asbestos-related lung disease
19 cases for attorneys, predominantly plaintiffs
20 attorneys but not totally. 10:37:34AM
21 I also do diagnostic electron microscopy in
22 which we receive specimens that are examined in the
23 electron microscope. And we receive those cases from
24 all over the country, most of which come from the
25 Northwest. 10:37:50AM
8
1 We also do a type of testing referred to as 10:37:52AM
2 diagnostic immunohistochemistry.
3 And then I receive about 200 to 500 cases a
4 year that are sent to me from other pathologists or
5 sometimes other medical doctors in consultation. 10:38:14AM
6 Q. Can you give me a general description of what

7 electron microscopy and diagnostic
8 immunohistochemistry are?

Instead of using glass lenses like a light microscope, the electron microscope uses electromagnetic lenses.

19 And the main difference is that you cut the
20 tissue very thin to evaluate it in an electron 10:39:12AM
21 microscope and you can see things with the electron
22 microscope that you cannot see with the ordinary light
23 microscope. You can magnify a specimen over a million
24 times if you desire. And the resolution, which means
25 the ability to see two separate points as distinct 10:39:28AM

1 points, is five times ten to the minus ten meters. 10:39:31AM

2 And what that means is that you can see very
3 tiny individual structures that are very close to one
4 another. And what this lets you do is look inside
5 cells. And you can make diagnoses with the electron 10:39:46AM
6 microscope that you cannot make with an ordinary light
7 microscope.

With respect to the question about diagnostic immunohistochemistry, we use that technique primarily in evaluating tumors that are difficult to diagnose by 10:40:01AM conventional methods. And that involves making antibodies that are directed against substances either on the surface of cells or inside cells and then react on an unknown tumor with those antibodies and determine what profile that tumor shows. 10:40:22AM

16 And by determining that, you are sometimes
17 able to tell exactly what type of cancer you are
18 dealing with, which you cannot tell by ordinary
19 diagnostic techniques like looking at the cancer
20 through an ordinary microscope. So it's used 10:40:39AM
21 primarily in tumor diagnosis.

22 Q. You have received special training in both of
23 these diagnostic techniques?

24 A. Yes. When I was a resident, I received
25 specialized training in electron microscopy. And it 10:40:54AM

1 also happened that I went to medical school at a time 10:40:59AM
2 where we were extensively trained in what's called
3 ultrastructural anatomy, which means the anatomy of
4 cells at the electron microscopic level.

5 In immunohistochemistry I also received 10:41:14AM
6 extensive training in that because I came along when
7 that technique was just being introduced in the late
8 1970s and early 1980s.

9 Q. What percentage of your professional time is
10 spent working at the Diagnostic Specialties 10:41:32AM
11 Laboratory?

12 A. I actually spend a hundred percent of my time
13 there, but I do hospital pathology. I'm on the staff
14 of the hospital in Bremerton, Washington, which is
15 Harrison Memorial Hospital. And I look at many or 10:41:48AM
16 most of the lung cases that are sent to our anatomic
17 laboratory. But I would look at those usually in my

18 office which is about two blocks away from the
19 hospital.

20 Q. What percentage of your work is not related 10:42:04AM
21 to your work for Harrison Hospital?

22 A. About 80 percent.

23 Q. How much of that 80 percent is spent in
24 litigation consultation?

25 A. About 50 percent. 10:42:27AM
11

1 Q. You mentioned earlier that most of your 10:42:30AM
2 litigation consulting work is done for cases related
3 to asbestos; is that right?

4 A. Yes.

5 Q. What percent of your litigation consulting 10:42:39AM
6 work is related to tobacco?

7 A. Less than 1 percent.

8 Q. Typically how many litigation consulting 10:43:01AM
9 cases do you receive per year?
10 MS. WEISS: Objection. Vague, ambiguous.
11 You mean in total? Are you talking about tobacco?
12 BY MS. TANG:
13 Q. Typically in an average year all your
14 litigation consulting cases.
15 A. The majority of them are asbestos cases. And 10:43:10AM
16 over the 16 years that I've been doing it, the average
17 would be about 350. And the range would be from a low
18 of about 100 to a high of about 650.
19 Q. You stated that you have been consulting for
20 litigation cases for the past 16 years? 10:43:33AM
21 A. Yes. I started in October of 1985.
22 Q. Typically what percentage of your annual
23 income is derived from litigation consulting?
24 A. It's difficult to give you a precise number
25 because the way our organization works is that all of 10:44:04AM
12
1 the income made by the entire organization is divided 10:44:08AM
2 equally among the partners after the expenses are
3 paid.
4 Last year -- or I should say in 2000 the
5 total income I made from asbestos litigation was 10:44:22AM
6 \$70,000. This past year it would probably be closer
7 to about \$100,000.
8 Q. Are you excluding tobacco consulting cases?
9 A. It would be kind of included in there. The
10 number of tobacco cases that I've been involved in 10:44:40AM
11 compared to the asbestos is very few.
12 Q. Your total billings for work on litigation
13 matters in the year 2000 averaged \$70,000?
14 A. No.
15 MS. WEISS: Objection. Misstates testimony. 10:45:06AM
16 Assumes facts not in evidence.
17 THE WITNESS: No. The amount of income I
18 made was \$70,000. I think the gross receipts in the
19 year 2000 were about \$600,000. But we have a
20 significant amount of overhead and we pay our
21 personnel out of that money. 10:45:20AM
22 BY MS. TANG:
23 Q. What about the gross receipts in 2001?
24 A. I don't know exactly what that's going to
25 come out since our accountant hasn't provided that 10:45:32AM
13
1 information yet. It would be, I think, probably a
2 little bit more than \$600,000. 10:45:35AM

3 Q. Overall in how many litigation cases have you
4 acted as an expert consultant?
5 A. It would probably be about 4,000 cases. And 10:45:47AM
6 by that I mean basically cases that I have reviewed.
7 Of course, not all of those would I have given a
8 deposition or gone to trial.
9 Q. Of the 4,000 litigation cases, would you say
10 about 1 percent was tobacco-related disease? 10:46:07AM
11 MS. WEISS: Objection. Leading question.
12 THE WITNESS: It would be less than that.
13 BY MS. TANG:
14 Q. How many times have you testified at trial as
15 an expert witness? 10:46:55AM
16 A. I would estimate over the 16 years about 150
17 times.
18 Q. Just backtracking for a second.
19 In the approximately 4,000 litigations cases
20 that you have acted as an expert witness on, you have 10:47:24AM
21 typically been retained by the plaintiff?
22 A. The majority.
23 MS. WEISS: Objection. Misstates testimony.
24 THE WITNESS: The majority of them I would
25 have. I started out working for the chief attorney 10:47:37AM
14
1 for the Johns Manville Corporation. And the first few 10:47:41AM
2 years that I did the asbestos, it was for the defense
3 primarily.
4 But then because the individual who hired me
5 for the defense put on conferences, many of the 10:47:52AM
6 plaintiff attorneys came so I started doing more work
7 for them over the years. Now it would be probably
8 about 99 percent plaintiff work, 1 percent defense
9 work.
10 BY MS. TANG: 10:48:08AM
11 Q. What have you been asked to do in this case?
12 A. Review the pathology materials and the
13 medical records on Betty Bullock and to determine what
14 disease process she had and if cigarette smoking was a
15 cause of that disease process. 10:48:35AM
16 Q. Has your assignment changed at all over time?
17 A. No.
18 Q. Do you anticipate that your assignment will
19 change at all between now and trial?
20 A. No. 10:48:47AM
21 Q. When did you first become involved in this
22 case?
23 A. We first received material in this case on
24 August 21, 2001.
25 Q. You received materials from whom? 10:49:07AM
15
1 A. The medical records were sent to us from
2 Paula Lawlor, who is an assistant at Mr. Piuze's
3 office. The pathology materials came directly from
4 the Hoag Memorial Hospital. And those came on
5 December 4, 2001. 10:49:09AM
6 Q. You have worked with Mr. Piuze and
7 representatives of his office in the past; correct?
8 A. Yes.
9 Q. And in how many cases have you been retained
10 to work by Mr. Piuze's office? 10:49:32AM
11 A. Once.
12 Q. Is that the Boeken case?
13 A. Yes.

14 Q. You stated that you received correspondence 10:50:23AM
15 from Ms. Paula Lawlor?
16 A. Yes.
17 Q. May I have a copy of that correspondence, 10:50:30AM
18 please?
19 A. Yes.
20 Q. If you can generally summarize for me what 10:50:30AM
21 was said in that correspondence.
22 A. Sure. The initial letter that I received 10:51:26AM
23 which was dated on Mr. Piuze's stationery was
24 August 16, 2001. And it stated that Mr. Piuze's
25 office represented Betty Bullock who was 62 years old 10:51:26AM
16
1 who had been diagnosed with small cell lung cancer on 10:51:30AM
2 February 19, 2001.
3 The letter also stated that Betty Bullock's 10:51:46AM
4 cancer had metastasized to her liver.
5 It stated that there was no date of the trial 10:51:46AM
6 as yet and that the case was currently in federal
7 court awaiting the judge's ruling on Mr. Piuze's
8 office motion for a remand to state court. Ms. Lawlor
9 stated that hopefully a trial would occur within six
10 to nine months. 10:52:06AM
11 And then in the last paragraph of the letter
12 she asks me if I would consult with them. And I wrote
13 a letter back to her indicating that I would.
14 Q. So just to clarify, this letter is dated 10:52:27AM
15 August 16?
16 A. Yes.
17 Q. 2001?
18 A. Yes.
19 MS. TANG: I'd like to mark this letter as 10:52:34AM
20 Exhibit 2, please.
21 (Defendant's Exhibit 2 was marked for
22 identification and is annexed hereto.)
23 BY MS. TANG:
24 Q. Have you spoken with anyone from Mr. Piuze's 10:52:51AM
25 office regarding Ms. Bullock's case prior to your 17
1 receipt of this letter? 10:52:55AM
2 A. Not that I recall. That doesn't mean that
3 somebody in my office may have not spoken with them.
4 But not that I recall.
5 I have an assistant whose name is Michaele, 10:53:04AM
6 M-i-c-h-a-e-l-e, Stoll, S-t-o-l-l, that I give a great
7 deal of responsibility to, so it's probably likely
8 that she may have.
9 Q. You stated that you responded to Ms. Lawlor's
10 letter by correspondence; is that right? 10:53:35AM
11 A. Yes.
12 Q. Was that your next contact with a
13 representative of Mr. Piuze's office?
14 A. Yes.
15 Q. Do you have a copy of that letter with you 10:53:43AM
16 today?
17 A. I do.
18 Q. Again, can you describe the substance of your
19 subsequent communication with Mr. Piuze's office?
20 A. I wrote a letter to Ms. Lawlor dated 10:53:57AM
21 August 23, 2001, stating that I was responding to her
22 letter that was dated August 16, 2001, to let them
23 know that I would participate in the Betty Bullock
24 case, whom they stated was diagnosed with small cell

25 lung cancer on February 19, 2001. 10:54:19AM
18
1 MS. TANG: I'd like to mark this letter as an 10:54:23AM
2 exhibit.
3 (Defendant's Exhibit 3 was marked for
4 identification and is annexed hereto.)
5 BY MS. TANG:
6 Q. Did you correspond with Mr. Piuze's office in
7 any manner between the time you received their letter
8 of August 16 to the time you responded with your
9 letter of August 23?
10 A. No. 10:54:55AM
11 Q. Please tell me in detail about all of your
12 subsequent communications with Mr. Piuze's office.
13 MS. WEISS: Objection. Somewhat vague and
14 ambiguous. You mean his office? Him personally? Or
15 does that include members of his staff? 10:55:12AM
16 BY MS. TANG:
17 Q. Whatever you have records of.
18 A. I received another letter from Ms. Lawlor
19 dated September 7, 2001, thanking me for agreeing to
20 consult in this case. And in that she stated that she 10:55:26AM
21 was sending me the pertinent medical records, which we
22 received.
23 The letter also stated that the case had
24 recently been remanded back to state court and that
25 there was a motion to expedite the trial and that 10:55:41AM
19
1 motion was going to be heard on September 26. I 10:55:44AM
2 didn't respond to this one way or the other.
3 The next information I received was from
4 Ms. Weiss, which was dated November 12, 2001, which
5 states that the trial had been set for February 13, 10:56:03AM
6 2002.
7 Ms. Weiss stated that she recently talked to
8 my assistant and my assistant suggested that she send
9 the following medical records which we had already
10 received, the pathology materials and reports 10:56:23AM
11 corresponding to those, and a brief summary of Betty
12 Bullock's pertinent medical history which is attached
13 to this letter which is dated November 12, 2001.
14 Q. Thank you.
15 I'd like to mark the letter dated 10:56:55AM
16 September 7, 2001, from Ms. Lawlor to Dr. Hammar as
17 Exhibit 4, and the letter dated November 12, 2001, to
18 Dr. Hammar which is two pages long as Exhibit 5.
19 (Defendant's Exhibits 4 and 5 were marked
20 for identification and are annexed hereto.)
21 BY MS. TANG:
22 Q. You received the medical records from
23 Mr. Piuze's office twice?
24 A. No. Once.
25 Q. Do you have correspondence reflecting your 10:58:14AM
20
1 receipt of pathology materials from Hoag? 10:58:16AM
2 A. I do. But I also have this letter right here
3 which is actually a copy that was sent to the Hoag
4 Memorial Hospital from Ms. Weiss that has to do with
5 release of pathology materials and my agreement to 10:58:30AM
6 have those sent back to them no later than the end of
7 December 2001.
8 MS. TANG: I would like to have this letter
9 dated November 21, 2001, to Hoag Memorial Hospital

10 from Dena Weiss of the Law Offices of Michael Piuze as 10:59:15AM
11 next exhibit in order, Exhibit 6.

12 (Defendant's Exhibit 6 was marked for
13 identification and is annexed hereto.)

14 BY MS. TANG:

15 Q. Have you had any other communications with 10:59:46AM
16 Mr. Piuze or a representative of his office regarding
17 this lawsuit or your deposition?

18 MS. WEISS: I'd like to object insomuch as he
19 has not testified that with regard to this case he's
20 had any communications so far with Mr. Piuze. In that 10:59:59AM
21 respect it misstates his former testimony that he
22 actually had any specific communications with
23 Mr. Piuze to date in this deposition.

24 THE WITNESS: Yes. I received this letter 11:00:27AM
25 here from Ms. Weiss on November 28, 2001, that had to 21
21

1 do with the pathology materials. And subsequently we 11:00:31AM
2 did receive the pathology materials from the Hoag
3 Memorial Hospital which we indicated in this slip here
4 that we fill out for every legal case that comes into
5 our office. So I will show you both of those. 11:00:47AM

6 BY MS. TANG:

7 Q. All right. Let me hand those back to you.
8 Can you summarize the substance of that
9 November 21 letter, I believe, from Ms. Weiss to you
10 regarding the pathology materials?

11 A. Sure. She stated that the Hoag Hospital was
12 unable to forward the pathology recuts, as there was
13 no diagnostic specimen left. And she stated that
14 Philip Morris had obtained some recuts, but there was
15 none left for us.

16 And Ms. Weiss stated that Hoag Hospital had
17 kindly agreed to release the originals on the
18 condition that the attached guarantee is signed by
19 myself and Ms. Weiss. And that was that other
20 document that you saw signed which is Exhibit 6. 11:01:21AM

21 And then this other sheet is something that
22 we fill out, specifically my assistant Michaela Stoll
23 fills out, for every legal case that we receive into
24 our office. Basically it has some demographic
25 information concerning the patient such as name, date 11:01:34AM

1 of birth; it has the attorney who asks us to do the 11:01:54AM
2 work; it has the date that we originally received any
3 information, which was August 21, 2001.
22

4 It also lists the pathology materials that we
5 receive, which in this case were four slides from the 11:02:12AM
6 Hoag Memorial Hospital on December 4, 2001.

7 It indicates the number of hours it took for
8 me to review the entire case, which in this case
9 happened to be three hours.

10 And it also has some notes in here that we 11:02:29AM
11 received the pathology material from Hoag on
12 December 4, 2001, and that I had signed an agreement
13 to return the slides to the Hoag Memorial Hospital by
14 December 31, 2001, which I did.

15 Q. Thank you, Dr. Hammar. 11:02:50AM

16 A. Sure.

17 MS. TANG: I'd like to mark the November 21
18 letter from Dena Weiss to Dr. Hammar regarding the
19 pathology materials as Exhibit 7.

20 And Exhibit 8, the document Dr. Hammar just 11:03:18AM

21 testified to. It is a document on Diagnostic
22 Specialties Laboratories letterhead and it has basic
23 identifying information and inventory of the pathology
24 slides received by Dr. Hammar's office.

25 (Defendant's Exhibits 7 and 8 were marked

23

1 for identification and are annexed hereto.) 11:03:39AM
2 BY MS. TANG:

3 Q. Are there any other communications that you
4 have had with any representative of Mr. Piuze's office
5 that we have not yet covered? 11:03:57AM

6 A. Yes.

7 Q. Can you tell me about those communications,
8 please?

9 A. The next communication was a letter addressed
10 to me by Tracy, T-r-a-c-y, Sorokin, S-o-r-o-k-i-n, 11:04:06AM
11 secretary to Michael J. Piuze, dated December 24,
12 2001, which concerns the Bullock versus Philip Morris
13 case. And in the first three paragraphs it talks
14 about the trial which had initially been scheduled for
15 February 13, 2002, in Department 52 of the L.A. County 11:04:31AM
16 Superior Court.

17 And then the next paragraph under the heading
18 "Trial" stated that the case might not commence as
19 scheduled because Philip Morris had removed the case
20 to the U.S. District Court. And Mr. Piuze's secretary 11:04:53AM
21 stated that their request that the case be returned to
22 the state court may be heard soon enough for the
23 trial, but it may not.

24 And then I was asked if I'm not going to be
25 available between February 21 and July 1 that I let 11:05:18AM
24

1 them know as soon as possible. 11:05:22AM

2 Then the next major heading in this letter
3 which is near the bottom of the first page has to do
4 with depositions and stated that Philip Morris had
5 requested deposition from all 13 of the expert 11:05:33AM
6 witnesses designated by Mr. Piuze's office and that
7 they had a copy of the Notice of Deposition which was
8 enclosed, which I have right here.

9 That is a three-page document that was signed
10 by John L. Carlton, attorneys for the defendant Philip 11:05:53AM
11 Morris Incorporated. So that would be the next
12 correspondence I had from their office.

13 Q. Thank you.

14 I'd like to mark this as the next exhibit in
15 order. 11:06:09AM

16 (Defendant's Exhibit 9 was marked for
17 identification and is annexed hereto.)

18 BY MS. TANG:

19 Q. Let's proceed to the next communication.

20 A. The next one is dated January 16, 2002. And 11:07:13AM
21 it was a fax addressed to me from --

22 Q. I'm sorry to interpret you. Did you respond
23 to the December 24 letter written to you by Tracy
24 Sorokin?

25 A. No. 11:07:34AM

25

1 Q. In any manner? 11:07:34AM

2 A. No. I made note of it, but I didn't respond.

3 Q. All right. Sorry to interrupt.

4 A. That's okay. The next document I received is
5 by fax and that was from Sonia E. Revolorio, 11:07:46AM

6 R-e-v-o-l-o-r-i-o, assistant to Mr. Piuze. And that
7 has to do with the deposition that was going to take
8 place here today at the Radisson Hotel with an
9 explanation of why the deposition was going to take
10 place here rather than at the airport.

11:08:19AM

11 And attached to this is something that my
12 assistant filled out which is our form called
13 "Deposition Confirmation Sheet." And I did not do
14 that, she did.

15 Q. All right. Thank you.

11:08:43AM

16 I would like it marked as the next exhibit in
17 order.

18 (Defendant's Exhibit 10 was marked for
19 identification and is annexed hereto.)

20 BY MS. TANG:

11:08:59AM

21 Q. Any other communications or correspondence
22 that we have not yet covered?

23 A. The only other is this mail message that was,
24 it looks like, faxed to us from Paula Lawlor to me on
25 November 27, 2001, asking if I could please e-mail her

11:09:17AM

26

1 a copy of my CV and fee schedule, which we did. And
2 the fee schedule which has not been shown yet is right
3 here. And I need to get that back because that's what
4 I use to give my assistant.

11:09:24AM

5 Q. Okay.

11:09:39AM

6 I will have marked as the next exhibit in
7 order the e-mail message from Paula Lawlor to
8 Dr. Hammar requesting a copy of Dr. Hammar's CV and
9 fee schedule.

10 (Defendant's Exhibit 11 was marked for
11 identification and is annexed hereto.)

12 BY MS. TANG:

13 Q. And, Dr. Hammar, I will return this next page
14 to you. But basically it states that your deposition
15 testimony fee is \$500 an hour and your fee for review
16 of slides and medical records is \$250 an hour.

11:10:09AM

17 A. That's correct. Thank you.

18 Q. Have you had any other correspondence with a
19 representative of Mr. Piuze's office?

20 A. No.

11:10:41AM

21 Q. At any time did you speak on the telephone
22 with any representative of Mr. Piuze's office?

23 A. Not that I recall, no.

24 Q. Have you communicated with any other person
25 regarding Ms. Bullock's case?

11:10:59AM

27

1 A. No.

11:11:02AM

2 Q. Have you spoken with Ms. Bullock's treating
3 physicians?

4 A. No.

5 Q. Do you plan to speak with Ms. Bullock's
6 treating physicians before trial of this case?

11:11:09AM

7 A. No.

8 Q. Have you spoken with Ms. Bullock?

9 A. No.

10 Q. Have you met Ms. Bullock?

11:11:19AM

11 A. No.

12 Q. Do you plan to meet Ms. Bullock before trial
13 of the case?

14 A. I don't necessarily plan to do it. I mean
15 there's always a chance that that could happen if she
16 attends the trial and I'm there.

11:11:29AM

17 Q. Were you involved in Ms. Bullock's diagnosis?
18 A. No.
19 Q. Were you involved in Ms. Bullock's treatment?
20 A. No. 11:11:43AM
21 Q. I take it you have never examined
22 Ms. Bullock?
23 A. That's correct.
24 Q. Do you plan to examine Ms. Bullock before the
25 trial? 11:11:59AM
26 28
1 A. No. 11:11:59AM
2 Q. Do you know Dr. David Burns?
3 A. No.
4 Q. Do you know of him through reputation?
5 A. No. 11:12:11AM
6 Q. Do you know Dr. Feingold?
7 A. Yes.
8 Q. How do you know Dr. Feingold?
9 A. He and I have participated in two or maybe
10 three previous tobacco cases where he has also worked 11:12:31AM
11 on behalf of the plaintiff.
12 Q. Do you recall the names of those tobacco
13 cases?
14 A. One was Boeken, of course. And the other
15 one -- I think he may be involved in the Lucier case, 11:12:52AM
16 but I'm not positive about that.
17 Q. Have you met Dr. Feingold?
18 A. I don't think I've met him in person. I've
19 talked to him on the phone a couple of times.
20 Probably more than a couple of times. And I have seen 11:13:20AM
21 a few of his reports. But I don't believe I have met
22 him personally yet.
23 Q. Have you discussed Ms. Bullock's case with
24 Dr. Feingold?
25 A. No. 11:13:36AM
26 29
1 Q. Do you plan on discussing Ms. Bullock's case 11:13:37AM
2 with Dr. Feingold?
3 A. There is a possibility that that could
4 happen, although to my way of thinking this is a very
5 straightforward case and it seems somewhat unlikely 11:13:51AM
6 that that would happen.
7 Q. Under what circumstances do you think it
8 would be necessary for you to communicate with
9 Dr. Feingold about Ms. Bullock's case?
10 A. About the only way that -- reason that I 11:14:16AM
11 think we would communicate would be if there was some
12 difference of opinion, say, by a defense expert with
13 respect to the diagnosis in this case.
14 Q. You stated earlier that you have spent a
15 total of three hours on this matter so far? 11:14:38AM
16 A. Yes.
17 Q. I'm sorry. I just read this a minute ago,
18 but let me ask you this question. How much do you
19 bill Mr. Piuze for each hour of work that you --
20 A. \$250 an hour. 11:14:52AM
21 Q. So your total billings so far are \$750?
22 A. That is correct.
23 Q. Doctor, please list all the work you have
24 done to date on this case, providing a breakdown of
25 the time that you spent on each task. 11:15:09AM
26 30
1 A. I don't look at it that way, but I'll try to 11:15:13AM

2 do my best. Basically what I --
3 Q. You can divide it in whichever way is most
4 suitable to your explanation.
5 A. Fine. Thank you. Basically what I usually 11:15:23AM
6 do is I will initially read the letters that I receive
7 from the attorney's office and will review any type of
8 information they give me, for example, that one
9 summary letter that was there concerning Ms. Bullock's
10 smoking history and some of her medical history. 11:15:38AM
11 After that I generally review the medical
12 records and reports, which would be those that are in
13 my file here and which I have described in my own
14 report.
15 After that I review the pathology materials, 11:15:54AM
16 which are the four slides that are discussed in my
17 report and which are listed on the front page of my
18 report which represented cytology specimens and one
19 bronchial biopsy specimen.
20 And then finally I would summarize all the 11:16:13AM
21 information that I had thought was important in the
22 summary statements, which would be the last page of my
23 report, or however many pages it took, and then I
24 would write a cover letter to the person who sent me
25 the case, which in this case was Paula Lawlor. 11:16:30AM

31

1 All of that took three hours. I would say it 11:16:35AM
2 probably took two hours, two and a half hours to
3 review the medical records and reports and only half
4 an hour to review the pathology materials.

5 Q. Have you reviewed the radiology in this case? 11:16:55AM
6 A. I have not reviewed the radiographs
7 themselves. I have reviewed some of the radiology
8 reports. And the ones I have reviewed are designated
9 or indicated in my report.

10 Q. Those were the ones included in the medical 11:17:22AM
11 records sent to you?

12 A. Yes.

13 Q. Have you reviewed any expert reports prepared
14 by any other plaintiff's expert in this case?

15 A. No. 11:17:33AM

16 Q. Have you reviewed any of the deposition
17 transcripts taken in this case?

18 A. No.

19 Q. Have you reviewed any of the pleadings or
20 other legal papers submitted in this matter? 11:17:44AM

21 A. No.

22 Q. Have you reviewed the Complaint in this case?

23 A. No.

24 Q. The interrogatories or requests for
25 production of documents? 11:17:58AM

32

1 A. No. 11:17:59AM

2 Q. Did you review any medical literature in your
3 preparation of this case?

4 MS. WEISS: Objection. Vague and ambiguous
5 as to medical literature. Are you talking outside the 11:18:09AM
6 medical records?

7 THE WITNESS: Not that I specifically sat
8 down and rereviewed. But over the years I review a
9 phenomenal amount of medical literature about
10 neuroendocrine neoplasms of the lung, which small cell 11:18:30AM
11 carcinoma is one of them.

12 I have written about this type of tumor

13 extensively. I've got several photographs of this
14 type of cancer in the book, which I actually have with
15 me today if you want to see it. 11:18:51AM

16 I have given lectures about this type of
17 tumor. I have been one of the individuals who helped
18 formulate the current W-H-O classification of lung
19 cancers in which we talk about small cell lung cancer.

20 I have done extensive electron microscopic 11:19:11AM
21 evaluation of this type of tumor. I have done
22 extensive immunohistochemical evaluation of this
23 tumor.

24 I have been an author on a paper on which we
25 did some in situ hybridization type studies on small 11:19:26AM
33
1 cell lung cancer. 11:19:31AM

2 So I've done a lot of work on this tumor in
3 the past. But I didn't sit down specifically and
4 review any articles on small cell lung cancer for this
5 deposition. 11:19:41AM

6 BY MS. TANG:

7 Q. Thank you. Are there any other tasks that
8 you performed in preparing for this deposition in this
9 case that we have not yet covered?

10 A. No. 11:20:03AM

11 Q. Let's take them one at a time and let me get
12 a general sense of -- better feel of what exactly it
13 is that was done. Starting with your review of the
14 medical records and reports in the medical records, do
15 you have a list of the records that you received from 11:20:16AM
16 Mr. Piuze's office?

17 A. There is no specific list, but they are
18 referred to in my report.

19 Q. Okay. Did these records come to you at once?

20 A. Yes. 11:20:31AM

21 Q. You received those records on November 12,
22 2001; is that right?

23 A. Yes.

24 Q. Do you know approximately how many pages of
25 records you received or do you know how many inches 11:20:56AM
34
1 thick the package was? 11:20:59AM

2 Actually, looking at this correspondence date
3 of November 12 from Ms. Weiss to you, Dr. Hammar --
4 and it is Defendant's Exhibit 5 -- I believe it says
5 that you received the letter -- the medical records 11:21:44AM
6 on September 7.

7 A. I think that's right. I think -- and I
8 answered your question incorrectly. I thought that
9 that was the date. I'm sorry.

10 Q. So you have not received any medical records 11:22:04AM
11 pertaining to Ms. Bullock subsequent to September 7?

12 A. That is correct. There are approximately 30
13 pages of records and reports, some of which are
14 duplicates of each other.

15 Q. Did you designate the particular medical 11:22:53AM
16 records that you wanted to review?

17 A. No.

18 Q. These 30 pages were selected, to the best of
19 your understanding, by a representative of Mr. Piuze's
20 office? 11:23:06AM

21 MS. WEISS: Objection. He said approximately
22 30 pages. Don't pigeonhole him like that.

23 THE WITNESS: Yes.

24 BY MS. TANG:
25 Q. Do you happen to have the medical records 11:23:15AM
35
1 here with you today? 11:23:16AM
2 A. Yes.
3 Q. You received them by mail; is that correct?
4 A. Yes.
5 Q. Did you review all the medical records? 11:23:29AM
6 A. I did, yes.
7 Q. All right. Thank you. Let's move on to your
8 examination of the pathology.
9 A. All right.
10 Q. Can you identify the pathology that you 11:23:46AM
11 reviewed?
12 A. Yes. I reviewed a total of four slides. And
13 they are described in my report beginning on Page 5.
14 One of the glass slides I reviewed was
15 designated as 11362-86. And it corresponded to a 11:24:01AM
16 pathology report bearing that number from the Hoag
17 Memorial Presbyterian Hospital, accession date
18 September 23, 1986. And that --
19 Q. I'm sorry, can I interrupt?
20 A. Sure.
21 Q. May I have a copy of that report? Or is that
22 the only copy that you have?
23 A. That's the only copy that I have.
24 Q. Okay, go ahead and read it. Go ahead and
25 testify with it. You said this pathology corresponded 11:24:28AM
36
1 to a Hoag Memorial pathology report? 11:24:36AM
2 A. Yes. Accession date, September 23, 1986.
3 And the slide represented a section of a skin lesion
4 from the right lower eyelid. And what it showed was
5 a -- what is called a benign skin appendage tumor, 11:24:51AM
6 specifically referred to as a syringoma. That's
7 s-y-r-i-n-g-o-m-a.
8 Q. Is that relevant in any way to your review of
9 this case?
10 A. No, as far as what type of major disease she 11:25:09AM
11 has.
12 Q. Okay. Thank you.
13 A. The next glass slide I reviewed was
14 designated as C1226-01. And according to the
15 pathology report bearing that number from the Hoag 11:25:24AM
16 Memorial Hospital, this represented
17 bronchial biopsy -- excuse me -- bronchial brushing
18 cytologic preparation made from the left upper lobe.
19 And this slide showed aggregates of cancer cells
20 having the cytologic appearance of a small cell lung 11:26:01AM
21 cancer.
22 The next slide reviewed was designated
23 C1228-01 which corresponded to a pathology report
24 bearing that number --
25 Q. And again, this is a pathology report 11:26:19AM
37
1 authored by a pathologist at Hoag Memorial Hospital? 11:26:21AM
2 A. That is correct, yes. And this cytology
3 slide represented bronchial washing cytology. And it
4 also showed aggregates of neoplastic cells
5 characteristic of a small cell lung cancer. 11:26:39AM
6 And then the final slide I reviewed was
7 designated as 3042-01. And the pathology report
8 bearing that number from the Hoag Memorial Hospital

9 stated that it represented a left upper lobe mass
10 bronchial biopsy. And the slide I reviewed showed a 11:26:58AM
11 small cell lung cancer.

12 Q. These are not recuts; correct?
13 A. These are the original ones that were
14 prepared at the Hoag Memorial Hospital.

15 Q. These are the diagnostic slides? 11:27:15AM
16 A. Well, yes, that's --

17 Q. Slides upon which the Hoag Memorial pathology
18 reports are based?
19 A. That is correct, yes.

20 Q. Do you recall the name of the pathologist who 11:27:28AM
21 prepared the reports?
22 A. I don't recall, but I think I can tell you
23 that. For the case that was -- the slide designated
24 3042-01, which was the transbronchial biopsy, that was
25 signed out by a person whose initials were D.V.H. 11:27:51AM
38

1 Q. Denise Van Horn? 11:27:58AM
2 A. Let me see if I can find -- I don't think I
3 ever saw the names of the -- yes, that is correct.
4 Denise Van Horn, that is correct.
5 And the next one that was designated as 11:28:20AM
6 1226 -- C1226-01, that was also signed out by Denise
7 Van Horn.
8 The slide designated as C1228-01 was signed
9 out by Denise Van Horn.
10 And the first slide, which was the 11:28:43AM
11 11362-86 -- I can't find that one. I don't know what
12 happened to that. I know I saw it.
13 Here it is. That was signed out by a person
14 whose initials were M.M. I don't know who -- what
15 that stands for or who that represents. 11:30:26AM
16 Q. These four pathology slides were mailed --
17 I'm sorry, how did you receive the slides?
18 A. We received them from the Hoag Memorial
19 Hospital. They sent them directly to me. And we
20 received them on December 4, 2001. And then we had to 11:30:43AM
21 return them by the end of December 2001.
22 Q. And you are looking at a cover letter --
23 A. Yes.
24 Q. -- from Hoag regarding the pathology slides;
25 correct? 11:30:57AM
39

1 A. That is correct. 11:30:57AM
2 Q. May I mark that as the next exhibit, please?
3 A. Of course.
4 Q. Thank you.
5 (Defendant's Exhibit 12 was marked for
6 identification and is annexed hereto.)

7 BY MS. TANG:
8 Q. Did you do any independent tests on these
9 pathology slides?
10 A. No. 11:31:44AM
11 Q. Did you take any photomicrographs of those
12 slides?
13 A. No.
14 Q. Is there a reason why you elected not to
15 conduct either staining or take photomicrographs of
16 these slides? 11:31:59AM
17 A. There wasn't any material to do any staining
18 on and I didn't think it would be appropriate for me
19 to alter the original slides in any way.

20 And as far as taking photographs, I thought 11:32:11AM
21 the diagnosis was so obvious that it wasn't necessary.
22 Q. If you did not have the original pathology
23 slides, would you have elected to do staining?
24 A. I wouldn't unless there was some reason to do
25 it. And if there was any question about the 11:32:30AM
40
1 diagnosis, it would be easy enough to do. But I 11:32:33AM
2 didn't think there was any question about the
3 diagnosis.
4 Q. You returned the pathology slides to Hoag; is
5 that correct? 11:32:46AM
6 A. Yes.
7 Q. And when did you do that?
8 MS. WEISS: I think that's been testified to
9 earlier.
10 BY MS. TANG:
11 Q. I know you promised to return them in
12 December.
13 A. Yeah, I know. We did. It was done on
14 December 12, 2001.
15 Q. Okay. Thank you. You sent those back by 11:33:27AM
16 mail?
17 A. We almost always do it by FedEx, but let me
18 just check our FedEx slips. By FedEx. That slip
19 right there.
20 Q. Okay. All right. Thank you. 11:34:47AM
21 A. It was addressed to Denise Van Horn at the
22 Hoag Memorial Hospital.
23 Q. The four slides were returned in their
24 original condition; correct?
25 A. Yes. 11:35:01AM
41
1 Q. Have you examined the actual pathology in 11:35:02AM
2 this case?
3 A. Yes.
4 Q. I'm sorry. The actual tissue specimen and
5 tissue blocks. 11:35:11AM
6 A. No. They are --
7 Q. I'm not very familiar with the terminology.
8 The nonslides.
9 A. Well, there probably would be only one block,
10 and that would be the biopsy block unless they made a 11:35:21AM
11 cell block from the cytology. Let me see.
12 No, I didn't. The only thing I reviewed was
13 the slides. I didn't review any blocks.
14 Q. I think this would be a good time for me to
15 ask you what the difference between cytology specimens 11:36:08AM
16 are and how are they different from a biopsy.
17 A. The cytology specimens are variable. In this
18 case there were bronchial brushings and bronchial
19 washings. And in --
20 Q. Cytology refers to cells? 11:36:28AM
21 A. Cytology refers to cells, yes. Cytology
22 means the study of cells.
23 And in a cytology specimen in this case what
24 you would receive would be some fluid which would
25 represent probably saline that was instilled into an 11:36:42AM
42
1 area of abnormality, specifically in her case the left 11:36:44AM
2 upper lobe, that would be withdrawn and then put into
3 a bottle and sent to a pathology laboratory for
4 evaluation.

5 And the brushings actually concern this 11:36:55AM
6 little brush that they actually put on the end of a
7 flexible fiberoptic bronchoscope and they can get in
8 the area of abnormality and brush it back and forth.
9 And then they put the brush into usually formalin and
10 would send us in a bottle the brush that would be
11 attached there. And we would actually take out the
12 brush and we would smear it on a slide and then stain
13 that.

14 With the cytology bronchial washings we would 11:37:11AM
15 usually make what is called a cytocentrifuge
16 preparation where you take a portion of the specimen
17 and put it into a cytocentrifuge and it will spin the
18 cells. And they would spin onto an area of a slide
19 that we stain with either a Pap stain or another type
20 of stain.

21 You can make a cell block preparation if you 11:37:25AM
22 want in which you would take some of the fluid like
23 from the bronchial washings, centrifuge it, and any
24 material that went to the bottom of the tube you could
25 then take that material and put it into a clot that
1 could be processed like a tissue specimen. 11:37:41AM
2
3 The biopsy usually would be fragments of 11:37:54AM
4 tissue that were obtained by snipping out like an
5 abnormal area. And those would usually be small, in
6 this case no more than two to three millimeters in
7 greatest dimension, and those would be submitted in a
8 tissue paper or between two sponges in what's called a
cassette.

9 So in the case of a biopsy, you usually have 11:38:12AM
10 tissue fragments. In the case of a cytology specimen, 11:38:25AM
11 you generally just have fluid or some type of a
12 cellular preparation.

13 Q. Is there any reason why a cytology specimen
14 cannot be swabbed on more than one slide?
15 A. No. You could do it on several slides if you 11:38:54AM
16 wanted to. You can make several cytocentrifuge
17 preparations if you wanted to.

18 Q. You also prepared a report in this case;
19 correct?
20 A. Yes. 11:39:59AM
21 Q. May I have a copy of your report, please?
22 A. I'd have to have it made. I thought maybe
23 you already received one. But I'd have to have it
24 copied. But you can certainly have a copy of it.
25 MS. TANG: Let's mark that as Exhibit 13, the 11:40:13AM
1 next in order. 11:40:16AM
2 (Defendant's Exhibit 13 was marked for
3 identification and is annexed hereto.)
4 BY MS. TANG:
5 Q. Dr. Hammar, how long did it take you to 11:41:02AM
6 prepare the report? And can you describe for me
7 generally what went into the preparation of this
8 report?
9 A. What went into the preparation was that when
10 we receive the medical records and the slides, I
11 initially start out using a hand-held dictaphone
12 stating what specimens that we received and from whom
13 they were received. That's usually given in the first
14 paragraph.
15 Then after doing that I then would start 11:41:15AM
16

16 looking at the medical records and reading those and
17 trying to summarize the information that I thought was
18 important from the medical records.

19 Once I had completed reviewing the medical
20 records and any radiology reports, things like that, I 11:41:45AM
21 would then look at the pathology slides and would
22 state what I saw from the -- in the pathology slides.
23 And I would usually do that by just looking at the
24 report, knowing that the number was correct without --
25 and maybe what the specimen was, but I wouldn't look 11:42:02AM
45

1 at what their diagnosis was. I would try to do that 11:42:05AM
2 independent.

3 Q. I see. So that the report reflects your
4 independent diagnosis of what you saw in the slide?

5 A. That is correct.

6 Q. Under a microscope?

7 A. Yes. And then once I have done that, I would
8 then summarize all of the information that I thought
9 was important using several summary statements, which
10 in this case it turned out there were 18 summary 11:42:27AM
11 statements.

12 And then after I did that, I would then
13 dictate a cover letter which is basically a summary of
14 what I reviewed, what I saw, what my opinions were.
15 And that in this case was a little bit over a page 11:42:39AM
16 long.

17 Q. How long did this report take you to prepare?

18 A. The entire material, including the review,
19 the report, proofreading, et cetera, et cetera, took
20 three hours.

21 Q. This is in addition to the time that you
22 spent reviewing medical records and the pathology --

23 A. Right. The entire thing took three hours.

24 Q. What date was your report finalized and
25 completed? 11:43:15AM
46

1 A. December 20, 2001.

2 Q. What date was it sent to plaintiff's counsel?

3 A. December 20, 2001.

4 Q. Would you like to take a break?

5 A. Whatever you like.

6 Q. How about we take a five-minute break?

7 (Recess taken.)

8 BY MS. TANG:

9 Q. At the break, Dr. Hammar, thank you very much
10 for making a copy of your entire file for us today. 12:24:14PM

11 A. You're welcome.

12 Q. I just want to verify. That is your entire
13 file on Betty Bullock; is that correct?

14 A. Yes.

15 Q. And that file consists of every document that 12:24:30PM
16 you have pertaining to your review of Ms. Bullock's
17 case?

18 A. Yes.

19 Q. Is there anything that you did not bring with
20 you today that pertained to your opinions in this case 12:24:40PM
21 in any way?

22 A. No.

23 Q. All right. Let me go over the remainder of
24 the documents that we have not yet marked from your
25 file, if that's okay. And I have separated them into 12:24:55PM
47

1 categories that make sense to me. 12:25:00PM
2 The first category consists of the medical
3 records that you received from Mr. Piuze's office.
4 And earlier you testified that it consists of about 30
5 pages of medical documents; correct? 12:25:13PM
6 A. Yes.
7 Q. These pages were transmitted to you via mail?
8 A. Yes.
9 Q. If you can take a look at the bottom page of
10 any of the records you copied to me, you see there it 12:25:32PM
11 says Goldstein Law Offices?
12 A. I do see that.
13 Q. Do you have any idea what that refers to?
14 A. No.
15 MS. WEISS: Objection. Calls for 12:25:42PM
16 speculation.
17 THE WITNESS: No, I do not.
18 BY MS. TANG:
19 Q. Do you know who selected these 30 pages of
20 documents for you at the Law Offices of Michael J. 12:25:50PM
21 Piuze?
22 A. No.
23 Q. Are there any additional pages that you may
24 have wanted to review?
25 A. No. I think these are totally adequate, I 12:26:03PM
48
1 mean given her information. I guess the only other 12:26:06PM
2 thing that would come up in this case is what has
3 happened to her. And I know that she has developed
4 liver metastases which would make her a stage -- an
5 extensive stage disease in the small cell scheme. But 12:26:22PM
6 other than that, none.
7 Q. How did you learn that she was discovered to
8 have liver metastases?
9 A. I think that was transmitted in a letter that
10 I received. 12:26:36PM
11 Q. Are you looking for Exhibit 2?
12 A. Actually, I'm looking -- is that what exhibit
13 it was?
14 Q. Yes.
15 A. Thank you. Yes, that's correct. 12:27:12PM
16 Q. I take it you will review more of
17 Ms. Bullock's records before trial. Is that right?
18 MS. WEISS: Objection. Calls for speculation
19 and a leading question and calls for facts not in
20 evidence. 12:27:35PM
21 BY MS. TANG:
22 Q. Do you plan to review additional records
23 prior to trial?
24 A. No.
25 Q. Let me clarify something. Previously when we 12:27:45PM
49
1 were talking about the work that you conducted on this 12:27:49PM
2 case so far -- I understand that you have completed
3 three hours of work reviewing the pathology slides and
4 reviewing the medical records. Is that correct?
5 MS. WEISS: No. Incorrect. Objection. 12:28:00PM
6 Misstates former testimony, form of the question.
7 THE WITNESS: The three hours actually
8 covered everything I did, which was review the
9 records, slides, proofread the report and everything.
10 So it is the entire summation of what I did, which 12:28:15PM
11 would include the review of the pathology materials,

12 medical records, prepare the report, proofread.
13 BY MS. TANG:
14 Q. Okay, that's where I got confused.
15 A. Well, that was my fault because I think I 12:28:30PM
16 told you initially that it took two and a half hours
17 to review the medical records and half an hour to
18 review the pathology report. I mean the pathology
19 material.
20 What I should have said was it took me three 12:28:39PM
21 hours to do the entire job, and about three quarters
22 of the time I spent reviewing the medical records,
23 dictating as I go, and then the other quarter of the
24 time was reviewing the pathology materials.
25 Q. Thank you. I am going to mark as the next 12:28:53PM
50
1 exhibit in order the 30 pages or approximately 30 12:28:56PM
2 pages of medical reports included or contained in your
3 file.
4 (Defendant's Exhibit 14 was marked for
5 identification and is annexed hereto.) 12:29:23PM
6 MS. TANG: This will be the next exhibit.
7 MS. WEISS: What is that?
8 MS. TANG: Plaintiff's expert witness list.
9 MS. WEISS: Okay.
10 (Defendant's Exhibit 15 was marked for
11 identification and is annexed hereto.)
12 BY MS. TANG:
13 Q. Dr. Hammar, I have marked as the next exhibit
14 in order Exhibit 15, a document entitled "Plaintiff's
15 Expert Witness List." It is 11 pages in total. I am 12:30:41PM
16 going to direct your attention to Page 8, Line 6, and
17 ask you to read that paragraph, please.
18 A. "Dr. Hammar is a pathologist who is
19 an expert in lung disease including
20 the causes of cancer. He may testify
21 about the pathology of cigarette-related
22 disease and the causes of cancer,
23 including cigarette smoking, as well
24 as to the specific pathology in this
25 case, the diagnosis and cause of 12:31:09PM
51
1 "plaintiff's injury. 12:31:22PM
2 Dr. Hammar's hourly fee for
3 deposition is \$500. His hourly fee
4 for consultation is \$250."
5 Q. Thank you very much. Have you read this 12:31:34PM
6 paragraph before?
7 A. No.
8 Q. Are you aware that this paragraph was
9 submitted on your behalf?
10 A. Not specifically. But I know that this type 12:31:51PM
11 of thing is done all the time in litigation so it's
12 not surprising to me.
13 Q. Is everything in the paragraph stated
14 accurate and correct?
15 A. Yes. 12:32:02PM
16 Q. I would like to go through that statement
17 that you just read line by line and learn about your
18 opinions involving every subject. And we will cover
19 the basis of each of your opinions in just a little
20 bit, but right now I'd like you to list your opinions. 12:32:20PM
21 Let's start with sentence two. You know
22 what? Give me -- I have notes on this copy.

23 MS. WEISS: Give them to me. Actually I want
24 them.
25 ///

52

1 BY MS. TANG:

2 Q. It just has highlighting and underlining and
3 scratch on it.

4 A. I saw that. It seemed very appropriate to
5 me.

12:32:47PM

6 Q. I will mark this same document as Exhibit 15,
7 just to replace the one with notations.

8 Starting with the second sentence which
9 states, quote, "He may testify about the pathology of
10 cigarette-related diseases and the causes of cancer, 12:33:24PM
11 including cigarette smoking," close parens.

12 Are you prepared to offer opinions regarding
13 these subjects?

14 A. Sure.

15 Q. What are your opinions about the pathology of 12:33:38PM
16 cigarette-related disease and causes of cancer?

17 A. Well, I think in this case I would probably
18 confine myself primarily to the lung and not get into
19 other areas, although cigarette smoke is associated
20 with a variety of other cancers. And for a complete 12:33:54PM
21 list of those and discussion I would refer you or
22 anyone else to an article by Peter Boyle, B-o-y-l-e,
23 that was published in "Lung Cancer" I think in 1996 or
24 1997.

25 With respect to the lung, you can group the 12:34:14PM
53

1 types of diseases that cigarette smoke causes into two 12:34:16PM
2 basic categories: The noncancerous and the cancerous.

3 In the case of the cancerous diseases, it's
4 very simple. It's lung cancer. And there are four
5 major types of lung cancer that cigarette smoke 12:34:31PM
6 causes. And that would include adenocarcinoma,
7 squamous carcinoma, small cell carcinoma, and large
8 cell undifferentiated carcinoma.

9 The type of lung cancer that Ms. Bullock has
10 is small cell lung cancer.

11 The noncancerous diseases of the lung that
12 cigarette smoke causes include emphysema; pulmonary
13 histiocytosis, h-i-s-t-i-o-c-y-t-o-s-i-s, capital
14 letter "X"; respiratory bronchiolitis; and
15 desquamative, d-e-s-q-u-a-m-a-t-i-v-e, interstitial 12:35:16PM
16 pneumonitis; and possibly what is referred to as usual
17 interstitial pneumonia.

18 With respect to the pathologic features of
19 all of these, I could go through and talk about every
20 one of them although I don't think that would be
21 probably necessary.

22 Q. Let's focus on what is relevant to
23 Ms. Bullock's case.

24 A. In this case what is relevant is the
25 mechanism by which cigarette smoke causes lung cancer 12:36:03PM

54

1 and specifically the mechanism and the association of 12:36:07PM
2 cigarette smoke and small cell lung cancer.

3 I would start out by saying that all types of
4 lung cancer are caused by the carcinogens in cigarette
5 smoke, of which there are approximately 43. The 12:36:22PM
6 carcinogens cause lung cancer through a progressive
7 multistage process in which there are mutations in the

8 genes that control cell division, the genes that can
9 control cell death, and the genes that can control DNA
10 repair. 12:36:43PM

11 Cigarette smoke also has an effect on other
12 types of carcinogenic mechanisms which are fairly
13 complex and I don't think need to be stated.

14 With respect to the types of lung cancer that
15 cigarette smoke causes, it causes all of them. The 12:37:01PM
16 ones that are most closely linked to cigarette smoke
17 carcinogens are small cell cancer like Ms. Bullock has
18 and squamous cell carcinoma, although adenocarcinoma
19 and large cell undifferentiated carcinoma are also
20 related to cigarette smoke carcinogens. 12:37:20PM

21 With respect to the question of the specific
22 pathology, I would state that small cell carcinoma is
23 composed of round and slightly spindle-shaped cells
24 that are derived from cells that are normally present
25 in the lung referred to as neuroendocrine cells. 12:37:39PM

1 Small cell carcinoma when you look at it 12:37:46PM
2 cytologically is composed of medium -- small to medium
3 size cells that have very high nuclear cytoplasmic
4 ratios and frequently appear in cytologic preparations
5 as what pathologists refer to as naked nuclei. 12:38:00PM

6 The chromatin pattern in a small cell
7 carcinoma cytologically is usually granular. And
8 there are frequently more than one chromocenter,
9 c-h-r-o-m-o-c-e-n-t-e-r. And nucleoli,
10 n-u-c-l-e-o-l-i, are inconspicuous and usually absent. 12:38:23PM

11 When you look at small cell lung cancer
12 histologically, which is a section of the tumor looked
13 at through an ordinary light microscope, the tumor is
14 composed of aggregates of these cells that are
15 infiltrating normal tissue. These cells show a very 12:38:41PM
16 high mitotic rate, show extensive degeneration and
17 necrosis, and can show a process which is referred to
18 as nuclear encrustation of elastic tissue in which the
19 DNA of the dying cancer cells migrates to a blood
20 vessel and attaches to the elastic tissue in the blood 12:39:07PM
21 vessel wall. And that's a very characteristic
22 appearance which was seen in this case in the biopsy
23 specimen.

24 Is that enough?

25 Q. I think we've moved on to the second sentence 12:39:23PM
1 of the expert declaration which talks more 12:39:26PM
2 specifically about Ms. Bullock's pathology in this
3 case.

4 A. Okay, I'm sorry.

5 Q. To refocus on the first section that talks 12:39:36PM
6 about causation of cancer in general, do you have an
7 opinion as to what percentage of lung cancer is caused
8 by cigarette smoking?

9 A. Yes.

10 Q. Or carcinogens in cigarette smoke? 12:39:46PM

11 A. In the general group of people it would be in
12 the neighborhood of 90 to 95 percent. In the cases
13 that I have seen of small cell lung cancer, it's 100
14 percent. I have never seen a case of small cell lung
15 cancer that has not occurred in a person who was a 12:40:05PM
16 cigarette smoker.

17 Q. Let's move on to the second sentence of that
18 disclosure. And the second sentence -- I'm sorry,

19 part of the first sentence continues to state that you
20 will testify, quote, "as well as to the specific 12:40:16PM
21 pathology in this case, the diagnosis and cause of
22 plaintiff's injury." Period, end quote.

23 I take it you are prepared to offer an
24 opinion regarding the diagnosis and cause of
25 Ms. Bullock's injury? 12:40:30PM
57
1 A. Right. 12:40:30PM
2 Q. And are these opinions set forth in your
3 expert report?
4 A. Yes.
5 Q. What are your opinions regarding first the 12:40:40PM
6 diagnosis of Ms. Bullock's cancer?
7 A. Small cell lung cancer.
8 Q. Do you have any other opinions regarding the
9 diagnosis of Ms. Bullock's cancer?
10 A. No. 12:40:54PM
11 Q. What are your opinions regarding the cause of
12 Ms. Bullock's injury?
13 A. Cigarette smoke carcinogens were the cause of
14 her lung cancer.
15 Q. Do you have any other opinions regarding the 12:41:06PM
16 cause of Ms. Bullock's lung cancer?
17 A. No.
18 Q. Finally, Dr. Hammar, if I can direct your
19 attention to the last sentence of that expert
20 disclosure statement, it states that your hourly fee 12:41:19PM
21 for deposition is \$500, hourly fee for consultation is
22 \$250. And I take it that is correct?
23 A. Yes.
24 Q. Are there any other opinions or conclusions
25 that you have reached in this case that you have not 12:41:32PM
58
1 already told us about? 12:41:34PM
2 A. I guess the only other conclusion would be
3 that Ms. Bullock will die from this cancer.
4 Q. Anything else?
5 A. No. 12:41:58PM
6 Q. Let's turn now to the basis of each of your
7 opinions.
8 A. Okay.
9 Q. What is the basis of your opinion that 90 to
10 95 percent of lung cancer is caused by carcinogens in 12:42:38PM
11 cigarette smoking, to the extent that you have not
12 covered that already?
13 A. That's what's published in the literature and
14 some articles. That's what we've found or -- in
15 what's called the lung cancer study group, of which I 12:42:53PM
16 was chairman of the pathology section. And that's
17 what I have recently seen after an evaluation of ten
18 years of cases of lung cancer in the city I work in,
19 which is Bremerton, Washington.
20 Q. Is that a research project that you're 12:43:15PM
21 referring to?
22 A. It is a research project. But it actually is
23 not so much about lung -- this type of lung cancer,
24 other than we needed this data to complete a
25 manuscript that I'm working on which is a rare type of 12:43:29PM
59
1 lung cancer called pseudomesotheliomatous carcinoma of 12:43:33PM
2 the lung.
3 Q. Do all smokers get lung cancer?

4 A. No.
5 MS. WEISS: Objection. Calls for 12:44:25PM
6 speculation.
7 BY MS. TANG:
8 Q. What percentage of smokers develop lung
9 cancer?
10 A. If you were to take all smokers and not 12:44:30PM
11 stratify them with respect to pack years, the maximum
12 percentage would be about 25 percent.
13 Q. What percentage of small cell lung cancer
14 patient are smokers?
15 A. 100 percent in my experience. 12:44:51PM
16 Q. Does small cell lung cancer occur in
17 nonsmokers?
18 A. I have never seen a case in nonsmokers in my
19 experience of almost 30 years as a pathologist.
20 Q. Are you aware of any medical literature that 12:45:09PM
21 has documented the occurrence of small cell lung
22 cancer in nonsmokers?
23 A. Not that I know of. I have asked several
24 other pathologists about that question and nobody that
25 I know of has ever seen a case of small cell lung 12:45:22PM
 60
1 cancer in a nonsmoker. 12:45:25PM
2 Q. From your experience and education is it
3 possible to develop small cell lung cancer if you are
4 a nonsmoker?
5 A. I think it would be possible. Another type 12:45:42PM
6 of agent that supposedly causes small cell lung cancer
7 is methylchloroether.
8 And asbestos causes lung cancer -- I mean
9 small cell lung cancer. But I've never seen a case of
10 small cell lung cancer in a person who has been 12:46:05PM
11 exposed to asbestos who has also not been a smoker.
12 So there are potential other agents that can
13 do it. And there is always the possibility that one
14 of these other agents could cause a case of small cell
15 lung cancer in a nonsmoker. I have not seen that 12:46:22PM
16 myself.
17 Q. What are these other agents?
18 A. I just said --
19 MS. WEISS: Objection --
20 THE WITNESS: -- methylchloroether, asbestos, 12:46:32PM
21 chromium, although chromium usually causes squamous
22 cell carcinoma. Those are ones that kind of come to
23 mind.
24 BY MS. TANG:
25 Q. What about exposure to radon? 12:46:59PM
 61
1 A. Radon -- 12:47:06PM
2 MS. WEISS: Objection. Still vague and
3 ambiguous. Which -- are we still on small cell?
4 MS. TANG: Yes, small cell.
5 THE WITNESS: Radon itself potentially could. 12:47:13PM
6 And I should have -- that kind of jogged my memory.
7 There are cases of small cell lung cancer in
8 individuals who have been exposed to radiation.
9 Usually it's in the form of uranium miners or people
10 who have been exposed to very high doses of radiation. 12:47:32PM
11 I am not --
12 BY MS. TANG:
13 Q. Do you recall whether they were smokers?
14 A. All the ones I have seen have been smokers.

15 But I think though that -- now that you have again 12:47:41PM
16 kind of jogged memory, I think there were some cases
17 reported of small cell lung cancer in Navaho uranium
18 miners who were nonsmokers.

19 And there were cases of lung cancer in excess 12:48:04PM
20 in the individuals who survived the atomic bomb blast
21 in Japan in World War II. I don't know what
22 histologic types of lung cancer those people
23 developed, but I know that there was an increased
24 incidence of lung cancer in that group of people.

25 Q. When you spoke about the Navaho uranium 12:48:27PM
miners, did they develop small cell? 62
12:48:30PM

1 A. Yes --

3 MS. WEISS: Objection. He just --

4 THE WITNESS: They did, yes.

5 BY MS. TANG: 12:48:38PM

6 Q. What is the basis of your opinion that
7 Ms. Bullock has small cell lung cancer?

8 A. Based on the cytologic preparations made from
9 bronchial washings and bronchial brushings and based
10 on the left upper lobe bronchial biopsy that she had. 12:49:06PM

11 Q. Anything else?

12 A. No.

13 Q. Is that properly referred to as pathology?

14 A. Yes.

15 Q. Is there anything in Ms. Bullock's medical 12:49:28PM
records or in her clinical course that is inconsistent
16 with the diagnosis of small cell carcinoma of the
17 lung?

18 A. No. Everything that is in her medical
records is very characteristic of small cell lung 12:49:41PM
cancer.

19 Q. Dr. Hammar, what was the size of
20 Ms. Bullock's lung mass at the time of diagnosis?

21 A. Let me get the exact size. What I'm going to
22 say is 11 by 7.2 by about 8, but let me get the exact 12:49:56PM
size. 63
12:50:02PM

23 It was about 11 by 7.7 centimeters. And
24 there's 2.54 centimeters in an inch. So that would be
about -- about 4 by 3 inches, around in there.

5 Good-sized tumor. 12:50:41PM

6 Q. Is that considered an unusually large-sized
7 mass at the time of diagnosis?

8 MS. WEISS: Objection. Form of the question,
9 the phrase as used.

10 THE WITNESS: It would be larger than most 12:50:58PM
11 but not at all unexpected, because if you look at
12 small cell lung cancer, it's the type of primary lung
13 cancer that has the fastest growth rate. The average
14 doubling time of small cell lung cancer is 50 days.

15 And there have been cases reported of a three-day 12:51:13PM
16 doubling time.

17 BY MS. TANG:

18 Q. Does the patient diagnosed with small cell
19 lung cancer usually present with metastases at the
20 time of diagnosis? 12:51:35PM

21 MS. WEISS: Objection. Form of the question.

22 THE WITNESS: Very commonly they do because
23 the initial thing that the doctors want to do is
24 determine whether it's what's called localized stage
25 or extensive stage. And almost everybody who is 12:51:49PM

1 initially diagnosed with small cell lung cancer
2 undergoes bone marrow biopsies because it's such a
3 rapidly metastatic tumor.

4 BY MS. TANG:

5 Q. Do you know whether Ms. Bullock was localized 12:52:00PM
6 stage or extensive stage?

7 A. When she initially presented and was
8 diagnosed, she was localized stage. But then she
9 obviously now is extensive stage.

10 Q. Does localized stage mean that she did not 12:52:14PM
11 have any distant or extrathoracic metastases at the
12 time of diagnosis?

13 A. That is correct. Extrathoracic is the best
14 word.

15 Q. Again, is that unusual for a patient 12:52:28PM
16 diagnosed with this size of tumor, being a histologic
17 cell type of small cell?

18 A. I don't know if it's unusual. Almost all of
19 them end up with metastases outside of the chest. I
20 would have to look that up to see what percent or 12:52:45PM
21 extensive stage versus localized stage at initial
22 diagnosis. I've seen many cases of both.

23 Q. I think you've answered my next question, but
24 do you know what percentage of small cell lung cancer
25 patients present with extrathoracic metastases at the 12:53:03PM

1 time of diagnosis? 12:53:09PM

2 A. Again, I don't know. I would have to look
3 that up. But that would be easy to find. That
4 information would be in a book, cancer book, for
5 example.

6 Q. Does the lack of extrathoracic metastases
7 suggest to you in any way that Ms. Bullock may not
8 have small cell carcinoma?

9 A. No.

10 Q. Do you have an opinion as to when 12:53:28PM
11 Ms. Bullock's tumor started?

12 A. You could at least roughly calculate that if
13 you made a couple of assumptions. If you made it that
14 the average doubling time is 50 days and that her
15 tumor was -- we'll just say an average of we'll just 12:53:44PM
16 say 10 centimeters.

17 And then you have to go back to this deal
18 where it takes -- to get a tumor that's one millimeter
19 in diameter, it takes 20 doublings. To get a tumor
20 that is one centimeter in diameter, it takes 30 12:54:07PM
21 doublings. To get a tumor that's about three
22 centimeters in diameter, it takes 35 doublings. And
23 to get a tumor that's about ten centimeters in
24 diameter, it takes 40 doublings.

25 So if we assume that her tumor is ten 12:54:24PM
66

1 centimeters in diameter and it takes 40 doublings to 12:54:27PM
2 produce that and the average doubling time of a small
3 cell lung cancer is 50 days, that would be 40 times 50
4 or 2,000 days. And if you divided that by 365, that
5 would be about -- that would be about five and a half 12:54:47PM
6 years.

7 But if her tumor was growing more rapidly
8 than that, like three days, if you use that doubling
9 time of three days, then it would be three times 40.
10 That's only 120 days. So that's almost explosive 12:55:17PM

11 growth. The 50 days is probably a better number to
12 use.

13 Q. Can you tell from your review of
14 Ms. Bullock's pathology or the medical records what
15 her rate of growth was?

12:55:44PM

16 A. You can't tell it exactly. The only way you
17 could tell are basically two ways. One would be if
18 you actually had previous chest radiographs on her,
19 then you can go back in time and see what the change
20 was over time. You could then do that. And I
21 actually have in my book a nomogram that you can
22 actually plug in these numbers to and get it.

12:56:01PM

23 But if you don't have that, then you really
24 kind of have to -- you could do some
25 immunohistochemical studies to see what percent of

12:56:17PM

67

1 cells were actively making new DNA. And if you had
2 that number, you could kind of have an idea of what
3 the turnover rate is. But you could never get it
4 exactly.

12:56:20PM

5 Q. Do you have an opinion as to when this tumor
6 was detectable by any diagnostic method?

12:56:33PM

7 MS. WEISS: I'd like to object to the
8 question as phrased, form of the question. Vague and
9 ambiguous as to detectable.

10 THE WITNESS: That's a difficult question to
11 answer because it kind of depends on the way you look
12 at it.

12:56:56PM

13 If you were to take x-rays on Ms. Bullock
14 prior to when she was diagnosed, she would obviously
15 have an abnormality there at least, I would say,
16 probably going back a few years.

12:57:09PM

17 But the thing is though is that unless for
18 some reason she became symptomatic and had some type
19 of complaint, nobody would have ever looked at her
20 unless for some uncommon reason she was in one of
21 these studies that look to see if screening programs
22 can prevent or can alter the natural history of lung
23 cancer.

12:57:24PM

24 So if you had some way in retrospect to have
25 said she had a chest radiograph three years ago, you

12:57:40PM

68

1 probably could have detected it then radiographically. 12:57:43PM
2 BY MS. TANG:

3 Q. When you say radiograph --

4 A. I mean by a standard PA chest radiograph.

12:57:51PM

5 But if she was not symptomatic, there wouldn't have
6 been any reason for her to have obtained a chest
7 radiograph unless, like I said, she was in some type
8 of screening study.

9 Q. So if Ms. Bullock had a chest x-ray taken
10 about three years ago, it's your opinion that some
11 sort of mass may have been detectable at that point?

12:58:06PM

12 A. I think that's true on a
13 more-probably-than-not basis, at least a 50 percent
14 chance. But that's also based to a certain degree
15 though on how fast the tumor is growing. And if she
16 by chance had one of those explosive-growing tumors
17 that had a doubling time of three days, she might have
18 not seen anything.

12:58:22PM

19 Q. It's your opinion that Ms. Bullock's lung
20 cancer is a primary tumor; correct?

12:58:41PM

21 A. Yes.

22 Q. What is that conclusion based on?
23 A. Based on the fact that this is a well
24 recognized type of primary lung cancer and that this
25 tumor has the histologic and immunohistochemical 12:58:52PM
69
1 features of a primary small cell lung cancer. 12:58:57PM

2 Q. I'd like to introduce -- I actually don't
3 have to introduce them as exhibits because I believe
4 we've already marked them, but what I'd like to turn
5 to next are the pathology reports authored by
6 Dr. Denise Van Horn at Hoag Memorial Hospital. 12:59:15PM

7 A. All right.
8 Q. Did you locate the reports?
9 A. Yes, I have. Right here.
10 Q. Okay. I want to focus on the report that 1:00:29PM
11 corresponds to the left upper lobe biopsy.
12 A. The biopsy, okay, sure. Right here. 340 --
13 3042-01.
14 MS. TANG: I'm going to mark the pathology
15 report authored by Dr. Denise Van Horn at Hoag 1:01:45PM
16 Memorial Hospital dated February 23, 2001,
17 corresponding to the lung biopsy, left upper lobe
18 mass, in pathology number 3042-01 as the next exhibit
19 in line.
20 (Defendant's Exhibit 16 was marked for
21 identification and is annexed hereto.)
22 BY MS. TANG:
23 Q. Dr. Hammar, this is the same report that you
24 have in your files; correct?
25 A. It is, yes. 1:02:49PM
70
1 Q. You have read this pathology report in 1:02:51PM
2 preparation for this case; correct?
3 A. I have.
4 Q. Dr. Hammar, what is Dr. Denise Van Horn's
5 diagnosis on this report? 1:03:03PM
6 A. Poorly differentiated carcinoma of small cell
7 type.
8 Q. I take it you agree with Dr. Van Horn's
9 diagnosis?
10 A. I do. 1:03:15PM
11 Q. Did Dr. Van Horn make any findings
12 inconsistent with a diagnosis of small cell carcinoma
13 of the lung?
14 A. No.
15 Q. Let's take a look at the immunohistochemical 1:03:26PM
16 stains done by Dr. Van Horn.
17 A. Okay.
18 Q. And you have viewed slides upon which these
19 stains were performed, correct, and upon which the
20 report is based? 1:03:39PM
21 A. I did not see any of the immunohistochemical
22 stains myself. I only had the H and E stained
23 section. So I did not have the immunostained
24 sections. I did look at her report.
25 Q. Do you have an understanding of where the 1:03:57PM
71
1 stain pathology slides are located? 1:04:00PM
2 A. Well, again it depends on whether they sent
3 them to somebody and somebody has them or they had
4 them in their own department and didn't send them to
5 me. I don't have any way of knowing. I knew what she 1:04:14PM
6 said that they showed and I also read the AFIP report

7 and saw what they reported.
8 Q. So the slides that you viewed did not have
9 the immunohistochemical stains on them except for the
10 H and E?
11 A. Yeah. I'll try to explain this to you.
12 The normal specimen that is processed is
13 embedded into what's called a block that's wax, and
14 there would be multiple little pieces of tissue in it.
15 And that would be the specimen.
16 And then this block is put into this machine
17 called a microtome. And you can take these very thin
18 sections of it and each section is put onto a glass
19 slide that's about 2 3/4 by 3/4 by 1/8.
20 And standard dyes that pathologists use to
21 stain tissue are called hematoxylin,
22 h-e-m-a-t-o-x-y-l-i-n, and eosin, e-o-s-i-n. And that
23 stains the nuclei of cells blue or kind of
24 purple-ish/blue and the cytoplasm of cells pink. And
25 so that's what I had.

1 Q. That's so you can differentiate between the
2 nucleus and the cytoplasm?
3 A. Yes. But that also helps you to just try to
4 determine what type of tumor it is. For example, if
5 you've seen one small cell carcinoma of the lung
6 you've basically seen them all because they all look
7 the same.
8 And then in this case they also did
9 immunohistochemical studies and it appeared they did
10 immunohistochemical studies at the treating hospital.
11 And then the Armed Forces Institute of Pathology
12 organization also did their own immunohistochemical
13 studies.
14 And I can tell you about both of them and
15 what they found, but that's what they did. And I
16 guess they were doing that just to make certain that
17 this was a small cell carcinoma and to rule out one
18 very treatable disease which would have been a small
19 cell lymphoma.
20 Q. So from your independent view of these slides
21 which had nothing more than the normal H and E stains
22 applied on them, you made an independent diagnosis of
23 small cell carcinoma?
24 A. Right. And it was only one slide. And it
25 was just like a single slide stained with hematoxylin
1 and eosin.
2 Q. This was slide 3042-01?
3 A. That's correct.
4 Q. You have not viewed any slides that have any
5 type of immunohistochemical stains; correct?
6 A. I have not. I just looked at the reports
7 both from the treating hospital and from the Armed
8 Forces Institute of Pathology.
9 Q. Thank you. Turning back to Dr. Van Horn's
10 report, would you walk me through the stains and give
11 me a description of the significance of the stain
12 results?
13 A. Sure. She did stains for what's called a
14 pankeratin, which she said was negative. And there
15 are so many different pankeratin antibodies that I
16 would have to know exactly which ones she used.
17 Q. You can't tell from the report?

1:04:30PM
1:04:45PM
1:05:02PM
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1:07:16PM

18 A. No. And basically you would expect most
19 small cell carcinomas to express one of the different
20 keratin molecules. There are actually 20 different
21 subtypes of keratin. And most small cell carcinomas
22 would contain a low molecular weight keratin, maybe
23 keratin 8 or 18. And if your pankeratin antibody had
24 that antibody to get that molecular species of
25 keratin, you would expect a positive stain. But if it 1:07:32PM
1 didn't, you wouldn't. 1:08:01PM
2 So a negative keratin doesn't really tell for 74
3 certain if it is or is not a small cell carcinoma. In
4 the majority of the cases you would see a positive
5 stain. 1:08:04PM
6 The pankeratin antibody that we use is called 1:08:15PM
7 an AE1/AE3. And that has antibodies against ten
8 different molecular species of keratin. And I would
9 say in about 95 percent of all cases of small cell
10 carcinoma of the lung you would see staining. But 1:08:36PM
11 there's about 5 percent that you do not. So a
12 negative doesn't really tell you one way or another.
13 Then the next one they did --
14 Q. A negative then doesn't indicate that small 1:08:51PM
15 cell is ruled out?
16 A. That's correct, it does not.
17 The next one they did was called a leukocyte 1:09:05PM
18 common antigen which is also called CD45. And the
19 reason they did that was to determine if those cancer
20 cells were lymphoma. And that was negative in this
21 case, which is important because that would strongly
22 rule against lymphoma in that I would say
23 99-percent-plus of lymphomas would be leukocyte common
24 antigen positive.
25 And then they did some tests that are more 1:09:22PM
1 specific for this group of neuroendocrine neoplasms. 75
2 They did a test for what's called synaptophysin and 1:09:25PM
3 another test for a substance called chromogranin,
4 c-h-r-o-m-o-g-r-a-n-i-n, capital letter "A." And
5 these are specific neuroendocrine markers.
6 Synaptophysin is a protein that was isolated 1:09:51PM
7 from the brain of a cow, but it's fairly specific for
8 neurons and neuroendocrine cells.
9 Chromogranin-A is a protein present in the 1:10:08PM
10 neuroendocrine granules of neuroendocrine cells and is
11 seen in all types of neuroendocrine tumors.
12 And then thyroid transcription factor 1, 1:10:30PM
13 which is the next one they did, which is abbreviated
14 TTF1, is a transcription factor against a few
15 different things, one of which are neuroendocrine type
16 proteins.
17 So in this case they stated that the
18 synaptophysin was positive, the chromogranin was
19 positive, and the --
20 Q. Does that mean that they are -- that it shows 1:10:44PM
21 that it is a neuroendocrine tumor?
22 A. Yes.
23 Q. Is a small cell tumor a neuroendocrine tumor?
24 A. Yes. And so these are all positive. And
25 that's what you would expect. 1:11:03PM
1 Sometimes the chromogranin is negative. And 76
2 that kind of depends on how many neuroendocrine 1:11:05PM

3 granules you can find in the tumor cells.
4 Q. In the case of small cell, what percentage of
5 small cell lung cancer tests positive for
6 synaptophysin? 1:11:19PM
7 A. I would say about 80 percent.
8 Q. What about for chromogranin?
9 A. I would say only about 30 percent. The best
10 marker is that last one, the TTF1. 1:11:38PM
11 Q. So a negative chromogranin stain doesn't rule
12 out small cell?
13 A. That's exactly correct.
14 Q. Let's move on to TTF1.
15 A. That was positive. And that's probably the
16 best. And I would say at this point in time I think
17 that's the most specific marker there is. And what
18 this is is a transcription factor for certain proteins
19 that are neuroendocrine type proteins. 1:11:53PM
20 Q. So if in the pathology slides that you viewed
21 there were stains and the stains were as reported, as
22 Dr. Van Horn reported, you would have diagnosed small
23 cell lung cancer? 1:12:13PM
24 A. I would have. But I would have diagnosed it
25 even without those stains. 1:12:27PM
77
1 Q. Which is what you did? 1:12:32PM
2 A. I did, yes, that's correct.
3 Q. Do you know Dr. Denise Van Horn?
4 A. I do not.
5 Q. Do you know her by reputation? 1:12:40PM
6 A. No.
7 Q. Thank you, Dr. Hammar. Let's move on to the
8 pathology report authored by Teri Franks.
9 A. Okay.
10 Q. And we have already marked this as what looks
11 like the second page of Exhibit 14. 1:13:07PM
12 A. Yes. Exhibit 14 or 12? I thought it was 12.
13 MS. WEISS: The medical record?
14 Exhibit 14 --
15 BY MS. TANG: 1:13:32PM
16 Q. It may also be --
17 A. It's part of 12, too. Okay, I know what you
18 mean.
19 MS. WEISS: Do you know what you mean?
20 THE WITNESS: This report right here. 1:13:41PM
21 MS. WEISS: It's in 12 and 14. Are you going
22 to mark it separately or --
23 BY MS. TANG:
24 Q. Is it in 14 in your pile?
25 A. I don't think -- mine only goes to 13. I 1:13:55PM
78
1 don't have anything past 13. What I think I probably
2 did is I took this apart, but I thought I stapled it
3 back for you. When I copied this, I know that I
4 stapled this one all together as one. 1:14:02PM
5 MS. TANG: We'll mark this as Exhibit 17. 1:14:20PM
6 This is a pathology report authored by Dr. Denise Van
7 Horn. It is dated March 8, 2001.
8 THE WITNESS: Not Denise Van Horn. Teri
9 Franks.
10 MS. TANG: I'm sorry. Authored by Teri J. 1:14:34PM
11 Franks to Denise Van Horn dated March 8, 2001.
12 (Defendant's Exhibit 17 was marked for
13 identification and is annexed hereto.)

14 BY MS. TANG:
15 Q. Again, you reviewed this report in 1:15:25PM
16 preparation for this case; correct?
17 A. Yes.
18 Q. What is Dr. Frank's diagnosis?
19 A. Her diagnosis from the left upper lobe biopsy 1:15:39PM
20 was small cell carcinoma.
21 Q. Do you agree with this diagnosis?
22 A. Yes.
23 Q. Let's look again at the immunohistochemical 1:15:49PM
24 stains.
25 A. Okay. 79
1 Q. Would you do the same thing and walk me 1:15:55PM
2 through the stains and --
3 A. Sure.
4 Q. -- significance of the stain results?
5 A. They did immunohistochemical stains I assume 1:16:00PM
6 on sections from the block. And they stated that
7 their stain for pankeratin was positive, which is in
8 contrast to the treating hospital stain which was
9 negative. But I think I have explained that.
10 Q. I'm sorry to interrupt. You said that they 1:16:17PM
11 did their stains from the block?
12 A. Right. Remember I told you that the tissue
13 is put into that paraffin block and a very thin slide
14 is made or slices of the block made and they put it on
15 a slide? 1:16:34PM
16 Q. Right.
17 A. So if somebody sent them the block -- and
18 they kind of indicate they did because if you look
19 down there at the bottom they say your blocks or block
20 will be returned -- 1:16:45PM
21 Q. Under separate cover.
22 A. So I assume that they had block S01-3042. So
23 what they did was put that block into the machine, cut
24 a bunch of other slices put onto what are called
25 supercharged slides to do these immunohistochemical 1:16:59PM
80
1 tests. And then they did their battery at the AFIP 1:17:02PM
2 and they came up with a positive pankeratin, positive
3 CD56, and a positive TTF1.
4 And then they stated that synaptophysin,
5 chromogranin, leukocyte common antigen were negative. 1:17:25PM
6 So you can see that they are different from -- in both
7 places.
8 They found a positive keratin, a positive
9 what's called Leu-7, L-e-u, dash, 7, and a positive
10 TTF1. And they found a negative chromogranin and a 1:17:40PM
11 negative synaptophysin and a negative leukocyte common
12 antigen.
13 And that pattern that they found is also
14 totally consistent with a small cell carcinoma. And,
15 as I said, I think the best marker at this point in
16 time is the thyroid transcription factor 1. 1:18:02PM
17 Q. It looks like Dr. Franks did one additional.
18 immunohistochemical stain?
19 A. She did.
20 Q. And that is the CD56; is that right? 1:18:19PM
21 A. Right.
22 Q. What does that stain test for?
23 A. "C" stands for cluster, "D" stands for
24 designation. And there are now about 150 CDs. And

25 they're not the CDs you're thinking of. 1:18:34PM
81

1 Q. There are millions of those. 1:18:38PM
2 A. But there are a bunch of different substances
3 that go under these cluster designations that
4 recognize different substances that are in or on
5 cells. And it turns out that this one I think is for 1:18:48PM
6 Leu-7, which identifies a type of lymphocyte, but it
7 also identifies neuroendocrine cells.

8 What the CD56 is is a molecule that's present
9 in neuroendocrine cells. And they found that to be
10 positive, which is what you would find in many 1:19:09PM
11 neuroendocrine neoplasms.

12 Q. Can you spell Leu-7.
13 A. L-e-u, dash, 7.

14 Q. Are the stain results reported by Dr. Franks
15 more consistent or less consistent than the stain 1:19:25PM
16 results reported by Dr. Van Horn with a diagnosis of
17 small cell lung cancer?

18 MS. WEISS: Objection. Form of the question.
19 As to the phrase "more consistent," vague and
20 ambiguous. 1:19:45PM

21 THE WITNESS: You know, it's kind of the way
22 you look at it. Both of them are consistent with
23 small cell carcinoma. And then you get back to what
24 percent of positive staining would you see.

25 I would say in pankeratin, if you use that 1:19:58PM
82

1 AE1/AE3 keratin, about 95 percent are positive. If 1:20:03PM
2 you use that antibody, about 95 percent of small cell
3 carcinomas are positive and about 5 percent are
4 negative.

5 With the CD56 antibody, in my experience 1:20:39PM
6 less than 50 percent of small cell carcinomas are
7 positive.

8 In my experience with the thyroid
9 transcription factor 1 antibody, 100 percent of small
10 cell lung cancers are positive. 1:20:56PM

11 Synaptophysin in my experience, about
12 80 percent are positive.

13 And with chromogranin in my experience about
14 30 percent are positive.

15 MS. WEISS: And I should have added to my 1:21:11PM
16 objection that it assumes facts not in evidence that
17 either one is more or less consistent with small cell.

18 BY MS. TANG:

19 Q. Dr. Hammar, do you have an opinion as to why
20 there was discrepancy between the stain results? 1:21:26PM

21 MS. WEISS: Objection as to what is
22 discrepancy. I don't know -- that also assumes facts
23 not in evidence, that there is any sort of
24 discrepancy.

25 THE WITNESS: There could be different 1:21:42PM
83

1 reasons. Number one would be different antibodies. 1:21:44PM
2 Number two would be different techniques that
3 are used, although they might or -- may or may not be
4 the same. Maybe in one laboratory they used what's
5 called antigen retrieval and in another laboratory
6 they did not. 1:22:00PM

7 There's always the possibility that in one
8 part of the tumor you can have a positive test and in
9 another part of the tumor you might have a negative

10 test because of different expression of different 1:22:16PM
11 genes by the individual cancer cells.
12 That would be at least three possible
13 reasons.
14 BY MS. TANG:
15 Q. Any others? 1:22:31PM
16 A. Those would be the ones that would come to
17 mind.
18 Q. Do you know Dr. Teri Franks?
19 A. I do not.
20 Q. Did you ever review the bronchial washing and 1:22:56PM
21 bronchial brushing cytology report authored by
22 Dr. Denise Van Horn at Hoag?
23 A. Yes.
24 Q. Are the results of those two reports
25 consistent with your diagnosis of small cell lung 1:23:10PM
84
1 cancer? 1:23:12PM
2 A. Yes.
3 Q. Anything in the reports that are
4 inconsistent?
5 A. No. 1:23:16PM
6 Q. What is the basis of your opinion that
7 Ms. Bullock's small cell lung cancer was caused by
8 smoking?
9 A. It's based on epidemiologic evidence that
10 shows that there's a significantly elevated incidence 1:23:41PM
11 of this type of disease in people that are cigarette
12 smokers versus people that are not cigarette smokers.
13 Q. What about facts specific to Ms. Bullock?
14 A. I don't think you can use anything
15 fact-specific to indicate causation. There is nothing 1:23:59PM
16 that you can look at that's going to tell you that her
17 cancer was caused by cigarette smoke. But the
18 epidemiologic data strongly indicates that to be the
19 case.
20 Q. So you cannot determine causation by your 1:24:16PM
21 review of the pathology or medical records; correct?
22 A. That is correct.
23 Q. In this case what information regarding
24 Ms. Bullock did you use to determine that cigarettes
25 were the cause of her small cell lung cancer? 1:24:30PM
85
1 A. I reviewed the information that was initially 1:24:31PM
2 sent to me from Mr. Piuze's law office which I believe
3 stated that she had about a 45-pack-year history of
4 cigarette smoking. And in the medical records there
5 were indications that she may have had as high as
6 60-pack years of smoking. She quit smoking in
7 February 2001. 1:24:44PM
8 Q. Is there any other information specific to
9 Ms. Bullock that you base your causation opinion on?
10 A. No. 1:25:09PM
11 Q. Again, you have not spoken with Ms. Bullock
12 or interviewed her; correct?
13 A. That is correct.
14 Q. Everything you know about Ms. Bullock's past
15 smoking history was obtained through the medical 1:25:23PM
16 records sent to you by Mr. Piuze's office and the
17 letter that was sent to you by Mr. Piuze's office?
18 A. Yes.
19 Q. What is the basis of your opinion that
20 Ms. Bullock will die from her disease? 1:25:46PM

21 A. Experience.
22 Q. Do you have a prognosis for Ms. Bullock?
23 A. Yes.
24 Q. What is that prognosis?
25 A. She is going to die from this cancer. 1:26:04PM
86

1 Q. You have not reviewed any of Ms. Bullock's 1:26:12PM
2 more recent records; correct?
3 A. That is correct.
4 Q. Generally what percentage of small cell lung 1:26:22PM
5 cancer patients survive beyond six months of their
6 diagnosis?
7 A. What you would read in the literature would
8 be anywhere as high as up to 20 percent. What I think
9 happens in reality is less than 5 percent.
10 Q. What about survival beyond one year of the 1:26:46PM
11 time of diagnosis?
12 A. There would be a certain percentage that
13 would survive. And again it depends on what you read
14 in the literature. The highest number I have ever
15 seen in the literature would be 20 percent. What I 1:26:57PM
16 have seen myself is basically less than 1 percent.
17 Q. You are not an expert in psychology; correct?
18 A. No, I am not.
19 Q. You are not an expert in psychiatry?
20 A. That's correct, I am not. 1:27:16PM
21 Q. You are not an expert in pharmacology?
22 A. That's correct.
23 Q. Smoking behavior?
24 A. That's correct.
25 Q. You are not an expert in epidemiology; 1:27:26PM
87

1 correct? 1:27:30PM

2 A. I am not an expert in that. I have read a
3 great deal of epidemiologic type articles as a
4 pathologist interested in cancer, but I am not an
5 expert in that, I'm not board-certified in that, and I 1:27:40PM
6 do not have a degree in epidemiology.
7 Q. You will not be offering an expert opinion on
8 epidemiology in this case?
9 A. I don't think so.
10 Q. You have never conducted epidemiological 1:27:55PM
11 studies regarding smoking and the risks of lung
12 cancer; correct?
13 A. That's not totally true. That's what we're
14 doing right now in this pseudomesotheliomatous study.
15 And I am not going to be the epidemiologist, but I 1:28:08PM
16 have done the work to get the data to the
17 epidemiologist.
18 Q. Are you an expert on substance abuse?
19 A. No.
20 Q. And I take it you are not an expert on 1:28:20PM
21 addiction?
22 A. That's correct.
23 Q. Do you plan on doing any additional work for
24 this case between now and trial?
25 A. No. 1:28:31PM
88

1 Q. Do you plan to review any of the depositions 1:28:37PM
2 taken in this case?
3 A. I think it would depend a little bit on what
4 Mr. Piuze wanted me to do. I would say the only
5 deposition that I think might be helpful or 1:28:58PM

6 potentially helpful would be maybe Ms. Bullock's
7 deposition, which I guess would be firsthand evidence
8 of what her smoking history was. But I would only do
9 that if Mr. Piuze or his staff wanted me to do that.
10 Q. You do not plan to prepare any further 1:29:18PM
11 reports; is that correct?
12 A. That's correct.
13 Q. You do not plan to conduct any tests on
14 pathology; correct?
15 A. That's correct. 1:29:29PM
16 Q. Do you plan to prepare any demonstratives for
17 trial, including photomicrographs?
18 A. I think again that would depend on what
19 Mr. Piuze wanted. I would say that that's probably a
20 chance. There's always a possibility that
21 Dr. Feingold may have already done that. 1:29:45PM
22 I have a lot of examples of small cell lung
23 cancer, both microscopic and also what it looks like
24 when you look at small cell lung cancer with your own
25 eyes. And I don't know whether that would be 1:30:04PM
1 appropriate for this case or not. I would basically
2 do what I was asked to do. 1:30:06PM
3 Q. You are aware that Dr. Feingold has been
4 designated as an expert witness to testify on behalf
5 of plaintiff in this case? 1:30:16PM
6 A. Yes.
7 Q. How do you know that information?
8 A. Because I read it in one of the documents I
9 had and because in the other cases, or at least two
10 other cases I have been involved with in cigarette
11 litigation, he's also been an expert witness on behalf
12 of the plaintiff. 1:30:27PM
13 Q. Dr. Hammar, if you do any additional work
14 between now and trial or if you develop any
15 additional opinions or change your opinions, I request 1:30:43PM
16 that you inform the defense immediately. Is that all
17 right?
18 A. Yes.
19 Q. I also request that we be allowed to reopen
20 this deposition in that event. 1:30:52PM
21 A. That's fine with me.
22 Q. Did the opinions you expressed today and in
23 your report differ in any respect from the opinions
24 you gave in prior testimony other than those that are
25 plaintiff-specific? 1:31:10PM
1 A. No.
2 Q. Do you expect to testify about anything that
3 we have not yet discussed today? 1:31:12PM
4 A. Not that I can think of now.
5 Q. I don't think I have any more questions, but
6 I'd like to take a five-minute break to clean things
7 up over here and we'll readjourn in about five
8 minutes. 1:31:27PM
9 A. Okay.
10 MS. WEISS: Okay. 1:31:37PM
11 (Recess taken.)
12 (Defendant's Exhibit 18 was marked for
13 identification and is annexed hereto.)
14 BY MS. TANG:
15 Q. I have marked as Exhibit 18 documents from
16 your file that we have not yet marked. 1:37:13PM

17 I have no further questions, Dr. Hammar.
18 Thank you very much for your time.
19 A. Thank you.
20 MS. WEISS: I don't have any. 1:37:28PM
21 MS. TANG: We'll enter the stipulation that
22 the court reporter is relieved of her duties and
23 responsibilities to maintain the original transcript;
24 The original transcript will be delivered to
25 Dr. Hammar, who will have 30 days or 24 hours before 1:37:38PM
91
1 the time he testifies at trial, whichever is sooner, 1:37:43PM
2 to sign and return the original transcript to me at my
3 law offices of Arnold & Porter; defense counsel will
4 retain the original transcript;
5 In the event the original is not signed or 1:37:54PM
6 returned or is lost or destroyed, a certified copy
7 shall have the same force and effect as the original.
8 So stipulated?
9 MS. WEISS: So stipulated.
10 (TIME NOTED: 1:38 P.M.)

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1 I declare under penalty of perjury
2 under the laws of the State of California
3 that the foregoing is true and correct.
4 Executed on _____, 2002,
5 at _____, _____.

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10 SIGNATURE OF THE WITNESS
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1 STATE OF CALIFORNIA) ss:

2 COUNTY OF LOS ANGELES)
3

4 I, IRMA C. HOGAN, C.S.R. 4877, do hereby
5 certify:

7 That the foregoing deposition testimony of
8 SAMUEL P. HAMMAR, M.D., was taken before me at the
9 time and place therein set forth, at which time the
10 witness, in accordance with CCP Section 2094, was
11 placed under oath to tell the truth, the whole truth,
12 and nothing but the truth;

13 That the testimony of the witness and all
14 objections made by counsel at the time of the
15 examination were recorded stenographically by me,
16 and were thereafter transcribed under my direction
17 and supervision, and that the foregoing pages contain
18 a full, true, and accurate record of all proceedings
19 and testimony to the best of my skill and ability;

20 I further certify that I am neither counsel
21 for any party to said action, nor am I related
22 to any party to said action, nor am I in any way
23 interested in the outcome thereof.

24
25

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1 IN WITNESS WHEREOF, I have subscribed my name
2 this 2nd day of February, 2002.

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IRMA C. HOGAN, CSR No. 4877

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1 I N D E X
2 VOLUME I

3
4 Tuesday, January 22, 2002

5
6 WITNESS EXAMINATION

7
8 SAMUEL P. HAMMAR, M.D.

9
10 (By Ms. Tang)

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1 DEPOSITION EXHIBITS
2 SAMUEL P. HAMMAR, M.D.
3

4 NUMBER	5 DESCRIPTION	6 IDENTIFIED
1	Curriculum Vitae	6
2	August 16, 2001, letter from Paula Lawlor to Samuel Hammar	16
3	August 23, 2001, letter from Samuel Hammar to Paula Lawlor	18
4	September 7, 2001, letter from Paula Lawlor to Samuel Hammar	19
5	November 12, 2001, letter from Geraldine Weiss to Samuel Hammar, with enclosed patient history	19

24

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1 DEPOSITION EXHIBITS (CONTINUED)
2 SAMUEL P. HAMMAR, M.D.
3

4 NUMBER	5 DESCRIPTION	6 IDENTIFIED
6	November 21, 2001, letter from Geraldine Weiss to Hoag Memorial Hospital	20
7	November 21, 2001, letter from Geraldine Weiss to Samuel Hammar	22
8	Diagnostic Specialties Laboratory information form re materials received	22
9	December 24, 2001, letter from Tracy Sorokin to Samuel Hammar, with enclosed Notice of Expert Witness Depositions	24
10	January 16, 2002, letter from Sonia E. Revolorio to	25

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DEPOSITION EXHIBITS (CONTINUED)
SAMUEL P. HAMMAR, M.D.

4	NUMBER	DESCRIPTION	IDENTIFIED
5	11	"Mail Message" from Paula Lawlor to Samuel Hammar dated November 27, 2001	26
6			
7			
8			
9	12	December 3, 2001, letter from Denise Van Horn to Samuel Hammar with enclosed reports and indicating enclosure of slides	39
10			
11			
12			
13			
14			
15	13	Report of Samuel Hammar, M.D.	44
16			
17	14	Medical records/reports from witness's file	50
18			
19			
20	15	Plaintiff's Expert Witness List	50
21			
22			
23	16	Hoag Memorial Hospital pathology report of 2-23-01	69
24			

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DEPOSITION EXHIBITS (CONTINUED)
SAMUEL P. HAMMAR, M.D.

4	NUMBER	DESCRIPTION	IDENTIFIED
5	17	March 8, 2001, letter/report	78
6		from Teri J. Franks, M.D.,	
7		to Denise Van Horn, M.D.	
8			
9	18	Remainder of witness's	90
10		file documents	
11			
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